

Use Attainability Analysis

for

WBID 1220 Bear Creek

Submitted by BWR

June 29, 2007

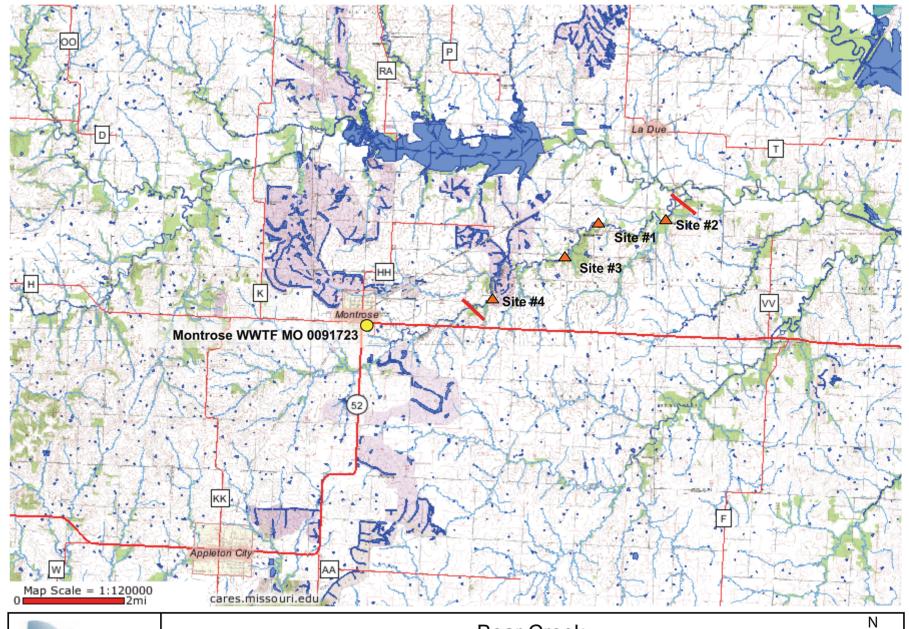
Submitted to:
Missouri Department of Natural Resources
Division of Environmental Quality
Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

I. Water Body	Information (For water body being surveyed	(b)	
Water Body	Name (from USGS 7.5' quad): BEAR	CLEEK	17
Missouri Wa	ater Body Identification (WBID) Number:	#1220	
8-digit HUC	: 10290/08	County: HENRY	Concess do La residencia
2000000	egal Description (from Table H):	7,40N,27W	
Downstream	Legal Description(from Table H):	louth	
Number of s	ites evaluated Aux		
	numbers, listed consequently upstream to		
II. Subegment LOCATION COOR Upstream Co	that may be of interest. ation (fill this section out only in cases were the condinates (UNIVERSAL TRANSVERSE MERCATOR PROJECT COORDINATES)	Downstream Coordinates:	
UTM X HORIZONTAL CO	Y LLECTION METHOD (Indicate the method used to determine the	UTM X e locational data.)	
	Global Positioning System (GPS)	Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode	(Kinematic)	Aerial Photograph or DOQQ	
Precise Positio	ning Service	Satellite Imagery	FR IF
Signal Averagi	ng	Interpolation Other	
Company of the Compan	erential Processing		
HORIZONTAL AC	CURACY ESTIMATE		
FOM	GPS Data Quality	Interpolation Data Quality	
EPE	±Meters ±Feet or ±Meters	Source Map Scale: 1:24,000 1:100,000 Ot	ther
PDOP	reet of ±meters		
	Facility Information (list all permitted dis		
Discharger l	Facility Name(s): Montrose V		
Discharger	Permit Number(s): M0009 [123	
V. UAA Surve	eyor (please print legibly)	- 13 Miles	
	rveyor Alan Mitchell	Telephone Number: (SIV) 303-200	16
87 18	n/Employer: EAE		
Position:	Environmental Scientist	· ·	
	at you have completed all sections, chec	eked all applicable boxes and that everythin	g is
complete.			
Signed: Mac	W. W. Letrell	Date: May 23, 2007	
February :	5, 2007	Page 22	2

Page 22





Bear Creek WBID #1220



WBID#	1220
Site#	

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (must be completed for each site) Site Location Description (e.g., road crossing): Date & Time: Bridge Crossing @ Personnel (Data Collectors): LUNFE Current Weather Conditions: Facility Name: MONTROSE WWTF Weather Conditions for Past 10 days: Permit Number: MOGD9 1723 Drought Conditions?: No drought \(\overline{\times}\); Phase II \(\overline{\times}\); Phase III \(\overline{\times}\); Phase IV \(\overline{\times}\); Unknown \(\overline{\times}\) Site Locations:

to Location		
PEOGATION COC	DROINATES (UNIVERSIAL TRANSVERSE MERCATOR PROJE	CTION, IN METERS)
Site GPS Coo	ordinates: UTM X: 38,29410	Y: 093,87920
HORIZONTAL	OLLECTION MET HOD (Indicate the method used to determine	the locational data.)
		Interpolation
Static Mode		Topographic Map or DRG
Dynamic Mode (I	Kinematic)	Aerial Photograph or DOQQ
Precise Positioni	ing Service	Satellite Imagery
Signal Averaging	9	Interpolation Other
Real Time Differ	rential Processing	
HORIZONIAL A	ACCURACY ESTIMATE	
	GPS Data Quality	Interpolation Data Quality
FOM	±Meters	Source Map Scale: 1:24,000 1:100,000 Other
EPE	±Feet or ±Meters	Septiment of the septim
PDOP		±Feet or ±Meters
notos:		
y Signian	II. DI	

P

☐ Wind surfing

	Opsiream Photos		Downstream Photos			Other Photos		
Photo ID#	Photo Purpose	Photo ID#	Photo Pu	ırpose	Photo ID#	Photo Purpose		
Exp 1220-34	Trans K-J	1220-1,2	Trans B-A					
Uses Observe	d*: (Uses actually obs	erved at time o	f survey.)					
	☐ Skin divi	ng 🗆 S	CUBA diving	□ T	ubing	☐ Water skiing		
The state of the s	- P	4		1				

☐ Hunting ☐ Trapping ☐ Fishing None of the above ☐ Other: Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

☐ Wading

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest

☐ Boating

Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
Fence	Steep slopes	☐ None of the above	Other:
1	a process		

Ind

☐ Kayaking

ications of r	luman Use*: (a	ttach photos)			
Roads	☐ Rope swings	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Camping Site	es	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	☐ Other:
Comments:	RD 651				

☐ Rafting

	•				CI	HANNI	EL FEATURE !	/6	
	75 75			10.70		RUA:	4090 RISE	15!	1
* Pa	ge Two – Data S am Morphology pstream View's I	Sheet B for WB	ID #	1220:		RIATE	OE as	LC -	
Stre	am Morphology					8001	: 600		
U	pstream View's I	Physical Dimensi	ons: Is	there any water	present at tl	his view?	Yes □ No		
			It	f so, is there an o	bvious curi	rent?	☐ Yes ☐ No		
S	elect one of the fo	llowing channel	feature:	s:					
	Channel Feature RIFFLE	Distance from acce	ess (m)	Width (m)	Length	(m)	Median Depth (m)	Max. D	Depth (m)
	RUN		V-1877-10-10-10-10-10-10-10-10-10-10-10-10-10-						
-	POOL								
L									
10	37 °	ימו י ומי	ě	22		12.2	7450		
L	ownstream View	's Physical Dime	ensions:	Is there any wa	ter present	at this vi	ew? ☐ Yes ☐ No		
				If so, is there a	n obvious c	current?	☐ Yes ☐ No)	
S	elect one of the fo								
	Channel Feature RIFFLE	Distance from acco	ess (m)	Width (m)	Length	n (m)	Median Depth (m)	Max. I	Depth (m)
	RUN								
L	POOL	 							
L	strate*: (These	inlines should add in	m to 1000	V)					
Sui	60 % Cobble			% Sand	10	% Silt	% Mud/Clay	20	% Bedrock
_		110 230 70 010	1,01	70 Sand	10	70 5111	76 Wild/Clay	40	70 Dedi oci
Aq	uatic Vegetation	*: (Note amount o	f vegetat	tion or algal growt	h at the asse	essment sit	re)		
Ī									
		NONE obs	SETVE	4					
L			7						
**7			0 19 gi	No.					
VV 2	ter Characteris	tics*: (Mark all th	nat apply	.)					
	Odor:	☐ Sewage	☐ Musk	cy \square Cher	nical	None None	☐ Other:		
	Color:	☑ Clear	☐ Gree	n 🗆 Gray	*	☐ Milk	y 🗆 Other:		
	Bottom Deposit:	□ Sludge	⊠ Solid	ls 🛛 Fine	sediments	□ None	Other:		
	Surface Deposit:	□ Oil	☐ Scun	n 🗘 Foar	n	□ None	Other:		
4	λ				****				
\mathbf{C}_{0}	mments: Please	attach any addit	tional c	omments () to 1	this form.				
*~	· · · · · · · · · · · · · · · · · · ·		6		8 8 8	2			
COn	ns information is no inrehensive underst	anding of water cor	ior remo	Val of a recreation	al use design	nation but	rather is to provide a material results and the rather is to provide a material rather in the rather is to provide a material rather rather is to provide a material rather rat	nore	
dec	ision on the recreati	on use analysis but	may poi	nt to conditions th	at need furth	ner analys	is or that effect another	use.	
	56								
Ple	ease verify that yo	ou have complete	ed all se	ctions, checked	all applica	ble boxe	s and that everythin	ig is coi	nplete.
		h-111		9			1 1		
Siz	rveyor's Signature	Alasinth			Dot-	of Com-	W. (70 27		
					Date	or Surve	ey: 6 2007 N. SCI,		_
Or	ganization: 3	IR CORP			Positio	n. Is	V. SCI,		
							10 NO 2 NO		

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

			Site		
- 3	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1	WETTED WIDTH	0.2		1 CHANNEL FO	AniPT:
2		0,2		2 RUN	100%
3		0.2		3	10000
4	MEASUREMENTS	0.7		4 DISSOLVED	OXYGEN:
5	0,48 m	0.1		5 8.12	
6	ABART /	0.1		6	0000
7	2	10.1		7	ppm
8		Oct		8	
9		p.l		9	
10		60.		10	
				11	
1	MELLED MIDLY	011		12 CHANNEL	EFANIRE ".
2	\$ 5,0 M	03		13 PUN	FEATURE ".
3		0.4		14	1
4	MEASUREMENTS	0,4		15 DISSOLVED	extrep:
5	0:50 M	0,3		16 8,32	T (qq-
4	APART.	2.3		17	ppm
7		6.3		18	M.
8		0.3		19	
9		0.3		20	
(0)		0 3		21	
				22 CHANNEL	PEATURE:
J	WETTED WIDTH	0.1		23 RUN	10092
Z	3,0 M	0.2		24	
3		0.1		25 DISSOLU	ED OXYGEN:
4	MEASUREMENTS	0.1		26 8,40	
5	0,30 M	0.1			ppm
67	APART	0.1			01
		0.2			
8		0.1		n	
9	-	0.1			
LO		011			

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best	of my knowledge, that all information reporte	d on this UAA
datasheet is true and accurate.		
Signed:	Date: 6/20/07	
Organization: SLN (RP)	Position T.W SCI.	

			SHEI		•	
	Distance from Stream edge	Depth	Rank	Assi	gned Rank	Sorted depth
ι	WETTED WIDTH	0.7		1	CHANNEL	FEATURE:
23	3,2m	n.Z		2	RUN	100%
3		0.1		3		
4	MEASUREMENTS	0,1		4	DISSOLVED	DXYGEN:
5	0.32 M	40.1		5	8,18	
6	APART	Low		6		Ppm
7		LO,1		7		Pr.
8		(01)		8		
9		2011		9		
10				10		
				11	CHANNEL	FEATURE:
1	MELLED MIDIH	0.2		12	RNN	
2	3.4 M	0.2		13		
3		0.1		14	DISSOLVED	OXYGEN:
4	MEASURE MENTY	0.2		15	8.38	
5	0.34 n	0.2		16		pom
6	APART	0.2		17		11
7		0.1		18		
8		0,		19	*	
9		40,1		20		
10	Later to the control of the control	20.1		21		
9				22	CHANNE	FEATURE:
(MELLED MIDLY			23	-	P001
7	5. F M	0.5		24		
3	- 121	0.6		25		
4	MEASUREMENTS			26	DISSOLU	ed oxygen:
5	0.55 1	0,9			8.33	
67	ARART	0.8		-		ppm
		9.6				11
8		0.4		n		
1		0.2				
10		0.1		1		

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my kno datasheet is true and accurate.	wledge, that all information reported on this UAA
Signed:	Date: 6/20/07
Organization: BWR CORP.	Position: LNV. SCI.
February 5, 2007	Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from Stream edge	Depth	Site Rank	Assigned Rank	Sorted depth
METTEDWIDTH	0.3		1 CHANNEL	FEANEE!
5.7 m	0.5		2 Pool	
	0.5		3	
MEGURENENTS	0.4		4 DISSOLVE	D OXYGEN:
19:57 m	0,4		5 8,34	
APART	0.3		6	ffm
	0.3		7	
	0.3		8	
	0.2		9	
	10.1		10	
			11	
MAJED MIDTH	5.0		12 CHANNEL	FEATURE:
5.3	012		13 Pool	
	0.2		14	
MEASUREMENTS	5,0		15 DISSOLU	ED OXYGEN.
8.53 M	0.3		16 816	1
APART	0,4		17	ppm
	0.4		18	11
	0,3		19	
	1.2		20	
	0.1		21	
			22	
HETTED WIOTH	0.7		23 Dd C 440	NEL FEATURE:
5.0	0,2		24 100	/
	0.3		25	
	0.3		26 D15502	UED EXYGEN:
MEGSUREMENTS	0.3		8,25	5
0150 M	0.2			ppm
ABART	0.1			()
ABART	0.1		n	
	0.2			
D	0.2			

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my	knowledge, that all information reported on this UAA	4
datasheet is true and accurate.		
Signed:	Date: 6/20/07	
Organization: BWR CORR.	Position: TNV, SC(.	

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
WETTED WIDTH	0.2		1 CHANNEL	Co AniRE!
5.0M	0.2		2 PO01	
	0.2		3	
MEASUREMENTS	013			oxygen:
0150 M	0.3		5 8,15	140
APART	0.3		6	DOW
1	0.3		7	Shw
	0.2		8	
	0.2		9	N.
	0.1		10	
			11	
HIDIN COTTON	401		12 CHANN	IL FEATURE:
5.9 m	0.3		13 POO!	
	013		14	
MERSUREMENTS	0.3		15 P1550L	UED OXYGEN:
015g M	0.2		16 7.90	>
APART	0.3		17	ppm
	0, 2		18	
	0.1	COMPANY OF	19	
	0.1		20	
	co.1		21	
	 		22	
	-		23	
			24	
			25	
			26	
7.8				
		-	•	
N			n n	

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my know datasheet is true and accurate.	wledge, that all information reported on this UAA
Signed:	Date: 6/20/07
Organization: BWR COPP.	Position: tall Scl.
February 5, 2007	Page 25

WBID#_	1220
Site#	2

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization (must be completed for each site)

D + 0 Tr:				Site Leasting Description (a.e. and annuity)						
Date & Time:	0/20/0-	7	178			Site Location Description (e.g., road crossing):				
	Personnel (Data Collectors): Lunt & Bartlett			Bridge Crossing @ RD 550						
Current Weather	Conditions:	DVETLAS	+, .	~75		Facility Name: MONTROSE WWTF				
Weather Condition	ons for Past 1	0 days: Ja	ir. R	m D	W.Com.		lumber: M			
Drought Conditio	ns?: No drou	ight 🗷: Pha	1	not.	Man de la	ase III 🗆:	Phase IV 🗆	Unknov	vn 🗆	
Site Locations:		7								
<u>सह्लेब्स्ट्राश्चरहेल्ल</u> ास		Managem-non-management of the second		The second secon	ATOR PR	(6월)그타티(9))	rinmeters)	<u>, y</u>		
Site GPS Coord			A comment				Y: 09	3,81	6850	
HORIZONTAL CO	LECTION ME	THOD (Indicat	e the me	ethod used	l to deter	mine the loc				
Static Mode	Global Po	ositioning Sys	stem (C	SPS)						on
Dynamic Mode (Kin	ematic)		MIT		-		Topographic N Aerial Photogr			
Precise Positioning	West of the second seco	,					Satellite Imag)QQ	
Signal Averaging		ki /					Interpolation (
Real Time Different	ial Processing	7/		710						*1.00 (a.e.)
HORIZONIAL ACC										
		GPS Data Qua	ality				14 to 12 14		Interpolation Data	a Quality
FOM	1	Silve Silve	leters							
EPE	±	Feet o	or ±	N	leters		Source		e: 1:24,000 1:100,0	LICE, SPANNER V.
PDOP								±	Feet or ±_	Meters
hotos:										
	pstream Phot	tos			De	Oownstream Photos Other Photos			Other Photos	
Photo ID#	Phot	to Purpose	-	Photo 1	ID#	Photo Purpose Photo ID#		Photo Purpose		
1220 61-						Tranget B-A			Thoto Turpose	
Jses Observed								1	1	
	()									
☐ Swimming		☐ Skin di			MI-SO	CUBA diving		☐ Water skiing		
☐ Wind surfing	3	☐ Kayakir			□ Bo			Rafting		
Hunting		Trappin			☐ Fis	shing None of the above sumentation of evidence of recreational uses, etc. Use			Other:	
Use Interview v	when conduct	ing interviev	vs.)	ting, pho	oto-docu	imentation	of evidence of	of recreat	ional uses, etc. U	Ise Data Sheet D- Recreatio
Surrounding Cunusual items of	onditions interest.)	s*: (Mark	all th	at prom	note or	impede	recreationa	ıl uses.	Attach photos	of evidence or
☐ City/county		☐ Playgre	ounds	. Пм	IDC cor	nservation lands			☐ Campgrounds	
☐ Boating acc	cesses	☐ State p	arks	□N	Vational	9 45		☐ Nati	re trails	☐ Stairs/walkway
☐ No trespass	sign	☐ Fence		₽ s	Steep slo				Other:	
Comments:	2									
Indications of	Human L	Jse*: (atta	ach p	hotos)						
Roads	☐ Rope			ot paths/p	orints	☐ Docl	k/platform		ivestock Waterin	g RV / ATV Tracks
☐ Camping Si			COLD COLD	pit/ring			DES Discharge		Fishing Tackle	Other:
Comments:	102	d 550	100 TO 100 T	r			25 Discharge		ioning rackie	Ouler.
L		/ 0		was the second						

			CH	thnec. F	EATURE (0
)	10.00	8	VN: 4	0%0 RISE	LE: 20%
Page Two – Data S	Sheet B for WBID #_	1720:	2	MATINE	NITI	re
tream Morphology	/ :	Sito 2		POL:	10%	
Upstream View's I	Sheet B for WBID #_ /: Physical Dimensions: I	s there any water	present at this	view? Y	es □ No	
		If so, is there an o	bvious curre	nt?	Yes □ No	
Channel Feature	Distance from access (m)		T (1- /	\ T \\ 1.	D (1.)	11 5 11 1
RIFFLE	Distance from access (III)	Width (m)	Length (m	i) Media	an Depth (m)	Max. Depth (m)
RUN						
POOL						
Downstraam View	's Physical Dimensions	se In there are we	ton	this wisses C	J.V D.V	
Downstream view	5 I hysical Dimensions		5225 PRO			
Salast and of the f	allamin a abassa l Casi	If so, is there a	n obvious cui	rent?	☐ Yes ☐ No)
Channel Feature	Distance from access (m)	Width (m)	Length (r	Mod (a	ion Douth (m)	May Donth (m)
RIFFLE	Distance from access (iii)	Widdi (III)	Lengui (i	ii) Med	lian Depth (m)	Max. Depth (m)
RUN					65. 9/9 (01.015 - 1.16 - 39 1.00	
POOL						
bstrate*: (These	values should add up to 10	0%.)				
% Cobble		% Sand	15	% Silt 70	% Mud/Clay	% Bedrock
quatic Vegetation	a*: (Note amount of veget	ation or algal growt	h at the assess	ment site)		
	None obs	ened				
Vater Characteris	stics*: (Mark all that appl	y.)				
Odor:	☐ Sewage ☐ Mu	sky 🗆 Cher	nical [Î None	☐ Other:	
Color:	Clear Gre	een 🗆 Gray	. [☐ Milky	☐ Other:	6. -
Bottom Deposit:	☐ Sludge ☐ Sol	ids 🗵 Fine	sediments [□ None	☐ Other:	
Surface Deposit:	□ Oil □ Sca	ım 🌣 Foar	n [□ None	☐ Other:	
8						
Comments: Please	attach any additional	comments () to	this form.			
This information is no	ot to be used salaki for	1 - <i>C</i>			*	
	ot to be used solely for rem canding of water conditions					
lecision on the recreati	ion use analysis but may p	oint to conditions th	at need further	analysis or th	at effect another	use.
	ou have completed all s					
	1000	Ed				
Surveyor's Signature	e: 123/H		Date o	of Survey:	6/20/07	
Organization:	JUR 6029.		Position	ENV. 5	cl.	

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
WETTED WIDTH	0.2		1 CHANNEL	FEATURE:
7.0	0.3		2 RIN	TOTTO
	0.4		3	
MEASUREMENTS	0.6		4 DISSOLUE	D OXYGEN:
0.30 M	0.6		5 8,71	
APART	0.6		6	ppM
<i>‡</i>	0.5		7	
3	0,4		8	
1	0.3		9	
٥	0.2		10	
			11	
METTED WIDTH	DJ		12 CHANNEL	FEATURE .
7.8	0.1		13 R/IN	
7	5,0		14	
4 MEASUREMENTS	0.3		15 DISSOLVE	D OXYGEN:
5 0,28 M	0.3		16 8,94	
4 APART	23		17	ppm
7	0,3		18	11
8	0.3		19	
9	0.3		20	
10	0.1		21	
	E		22 CHANNO	IL PEATURE:
1 WETTED WIDTH	0.3		23 RUN	
2 312	0.3		24	
3	0.4		25 D1550U	: HEDPIXO QUI.
4 MEASUREMENTS	0, 3		26 7.9	
5 0:32 M	0.3			ppm
6 ARART	0.3			T VI
	0.2			
8	0.1		n	
9	40.1			
10	40.1			

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

l, the under	rsigned, hereby affirm to the best of my kn	owledge, tha	it all	info	rmation reported on this UAA
datasheet is	s true and accurate.				
	Al Sull			1	1
Signed:	Mosk	Date:	6	20	07
		2011AC			• <

Organization: BWR CORR. Position: ENV. SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from	Depth	Rank	Assigned Rank	Sorted depth
Stream edge		Tunk	Assigned Rank	Sorted depth
HELL MELLEM 1	401		1 CHANNEL	FEATURE:
7 1.0	0.1		2 REFER	
3	0,1	i p	3	
4 MEASUREMENTS	0,1	<i>y</i>	4 DISSOLVED	OXYGEN!
5 0,10 M	0,1	70	5 9.55	
6 APARA	0.1	5 ji 2	6	OUM
7	0+1		7	Ppm
9	60.1		8	
9	C 0.[Part -	9	
10	4011	100	10	
		15.	11 CHANNEL	PEATURE:
HELLED MIDLY	5.0		12 Pao/	
2 5.2 M	0.2		13	
3	0.3	2	14 DISSOLVED	OXYGEN:
4 MEASURE MENTY	0.3		15 9,35	
5 0.52 n	0.3		16	pom
6 APART	0.3		17	
7	0.3		18	
8	0,2		19	
9	0,2		20	
10	0.1		21	
			22 CHANNE	FEATURE:
1 MELLED MIDLY	0.1		23 BUFIE	-
7 1.3m	0.2		24	
3	0.1		25	
4 MEASUREMENTS			26 D1350LU	ED OXYGEN:
5 013 1	0.1		9.56	
6 APART	01			ppm
7	0.1			11
9	0.1		n	
1	0,1			
10	40,1		312	

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

datasheet is true and accurate.	knowledge, that all information re	ported on this U
Signed:	Date: 6/20/07	
Organization: SWR CORP.	Position: twv. Scl.	
February 5, 2007		Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

511 5

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
WETTED WIDTH	4011		1 CHANNEL :	ETADIRE!
3.2	D. I		2 RUN	TOTIVEE.
3	0.1		3	+
HEASUREMENTS	0.1			OXYGEN:
5 0.32 m	10.1		5 9,35	oxygen:
APART	0.1		6	A CONTRACTOR OF THE CONTRACTOR
7	0.2		7	ffm
3	0.1		8	
NO. Application 20	0.1		9	
0	40.1		10	
			11	
I WETTER WIDTH	0,1		12 CHANNEL	FEATURE :
3,4	0.3		13 RUN	
5	0.3		14	
4 MEASUREMENTS	0, 5		15 DISSOLUE	D OXIGEN.
5 0.34 m	0,4		16 9, 37	
6 APART	0.3		17	ppm
	0, 2		18	11
8	0,2.		19	
9	401		20	
0	46.1		21	
			22	
1 WETTED WIDTH	0,1		23 DX C440,	JEL FEATURE:
2 03.5	0.1		24 RU	N
3	0.2		25	
4	0.2		26 D1550L1	DED EXTREM:
5 MEASUREMENTS	0.2		813	0
G 0.35 M	D. Z			Ppm
7 ASART	0.2			01
8	0.2		n	
9	0,1			
10	40,1			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my k datasheet is true and accurate.	mowledge, that all information reported on this UAA
Signed:	Date: 6/20/07
Organization: BWR CORP.	Position: KNY SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from	Depth	Site 2 Rank	Assigned Rank	Sorted depth
Stream edge	6.0 Sept. 2017 (201			
WETTED WIDTH	0.2		1 CHANNEL FE	ANRE!
2.5	0.3		2 Poo/	
	0.4		3	
MEASUREMENTS	0.5		4 DISSOLVED C	MGEN:
0.25 M	0.6		5 9,53	
ARART	0.6		6	Dow
	0.6		7	Shw
	0.3		8	
	0.2		9	
	40.1		10	
			11	
HELLED MIDLY	60.1		12 CHANNEL	FEATURE:
3.0 M	0.1		13 Poo	
****	0.7		14	
MERSUREMENTS	0.3		15 PISSOLVET	DXYGEN:
0.30 M	0.3		16 975	
ARART	0.3		17	ppm
	0.2		18	
	0,1		19	
	40.1		20	
	6011		21	
			22	
			23	
			24	
	-		25	
			26	
	-			
	+		n	

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

1, the undersigned, hereby affirm to the best of my know	vledge, that all information reported on this UA
datasheet is true and accurate.	E CONTROL OF THE PROPERTY OF T
Signed:	
Signed: AND SITU	Date: 62007
Organization: & COP.	Position: ENV. SCl,

WBID#	1220
Site#	3

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization

Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Proce HORIZONTAL ACCURACY	tions: Past 10 days: No drought S (UNIVERSALE) S: UTM X: ON METHOD (Included Positioning Desire) Past 10 days: GPS Data	Phase I D TRANSVERS 93.90 dicate the me g System (G	Blus ; Phase II ; Phase II SE MERCAT 0324	Facility Permit Phase III	Name: MINAMETERS) Y: 88.6	ONTINS NOC 1; Unkno	wn Interpolatio	
Personnel (Data Collector Current Weather Conditions for Drought Conditions?: Note Locations: LOCATION COORDINATES Site GPS Coordinates HORIZONTAL COLLECTION Glo Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Proces HORIZONTAL ACCURACY FOM EPE PDOP	tions: Past 10 days: No drought S (UNIVERSALE) S: UTM X: ON METHOD (Included Positioning Desire) Past 10 days: GPS Data	Phase I D TRANSVERS 93.90 dicate the me g System (G	Blus ; Phase II ; Phase II SE MERCAT 0324	Permit Permit Phase III OR PROJECTION	Name: Number: Number: Phase IV N, IN METERS) Y: 38 Cocational data.	0/11/05 11/05 1; Unkno	209 1723 wn -	
Weather Conditions for Drought Conditions?: N te Locations: LOCATION COORDINATE: Site GPS Coordinates HORIZONTAL COLLECTION Glo Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Proces HORIZONTAL ACCURACY FOM EPE PDOP	Past 10 days: No drought S (UNIVERSALES: UTM X: ON METHOD (Incident of the control of the co	Phase I TRANSVERS 93-90 dicate the me g System (C	; Phase II SE MERCAT	Permit Phase III	Number: 3: Phase IV N, IN METERS) Y: 38 Ocational data.	1, Unkno	wn Interpolatio	
Drought Conditions?: N te Locations: LOCATION COORDINATES Site GPS Coordinates HORIZONTAL COLLECTION Glo Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Proces HORIZONTAL ACCURACY FOM EPE PDOP	Past 10 days: No drought S. (UNIVERSALES: UTM X: ON METHOD (Incobal Positioning) Past 10 days: Past 10 days: S. (UNIVERSALES: UTM X: ON METHOD (Incobal Positioning) Past 10 days: GPS Data ### Data	Phase I TRANSVERS 93-90 dicate the me g System (C	; Phase II SE MERCAT	Permit Phase III	Phase IV Y: 38 / Occational data.) Topographic]; Unkno	wn 🗆	
te Locations: LOCATION COORDINATES Site GPS Coordinates HORIZONTAL COLLECTION Glo Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Proce HORIZONTAL ACCURACY FOM EPE PDOP	S: UTM X: S: UTM X: ON METHOD (Included Positioning Po	TRANSVERS 93.90 dicate the me	SE MERCAT	OR PROJECTIO	Y: 38 (ocational data.) Topographic	28183	Interpolatio	
te Locations: LOCATION COORDINATES Site GPS Coordinates HORIZONTAL COLLECTION Glo Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Proce HORIZONTAL ACCURACY FOM EPE PDOP	S: UTM X: S: UTM X: ON METHOD (Included Positioning Po	TRANSVERS 93.90 dicate the me	SE MERCAT	OR PROJECTIO	Y: 38 (ocational data.) Topographic	28183	Interpolatio	
Site GPS Coordinates HORIZONTAL COLLECTIO Glo Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Proce HORIZONTAL ACCURACY FOM EPE : PDOP	S: UTM X: ON METHOD (Incobal Positioning essing 'ESTIMATE GPS Data	93_90 dicate the me g System (G	0324° ethod used to	°W	Y: 38 / ocational data.) Topographic	28183	Interpolatio	
HORIZONTAL COLLECTION Glo Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Proce HORIZONTAL ACCURACY FOM EPE : PDOP	ON METHOD (Incident of the control o	dicate the me	ethod used to	o determine the lo	Topographic		Interpolatio	
Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Proce HORIZONTAL ACCURACY FOM EPE : PDOP	essing GPS Data	g System (G		o determine the lo	Topographic		Interpolatio	
Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Proce HORIZONTAL ACCURACY FOM EPE PDOP	essing CESTIMATE GPS Data		375)			Map or DR		n .
Precise Positioning Service Signal Averaging Real Time Differential Proce HORIZONTAL ACCURACY FOM EPE PDOP	essing 'ESTIMATE GPS Data	Quality				o. D.	G	Water Committee
Signal Averaging Real Time Differential Proce HORIZONTAL ACCURACY FOM : EPE : PDOP	essing 'ESTIMATE GPS Data	Quality						
Real Time Differential Proce HORIZONTAL ACCURACY FOM : EPE : PDOP	GPS Data	Quality			Satellite Imag	gery		L. L. T.
FOM : EPE : PDOP	GPS Data	Quality	SHOW HAVE PLANTED TO		Interpolation	Other		
FOM : EPE : PDOP	GPS Data	Quality						
EPE :	±	Lucinty					Internolation Date	Quality
EPE :		Matara	METERS FAIR				Interpolation Data	Quanty
PDOP	±Fe	Meters			Source	e Map Scale	e: 1:24,000 1:100,00	0 Other
(0.1125)(0.05)		EPE ±Feet or ±Meters			± Feet or ± Meters			Meters
otos:								
			10 			T		
Upstream	n Photos			Downstream	Downstream Photos		- 0	Other Photos
Photo ID#	Photo Purpos	e	Photo ID:	#]	Photo Purpose	:	Photo ID#	Photo Purpose
69470	64 = 5		6726			2 9	-	
ses Observed*: (Us	ses actually	observe	d at time	e of survey.)) .			
☐ Swimming	☐ Skin	diving		SCUBA divi	CUBA diving		ng	☐ Water skiing
☐ Wind surfing	☐ Kaya	aking		Boating	pating		ng	☐ Rafting
☐ Hunting	☐ Trap			Fishing			☐ Other:	
Describe: (Include numi Use Interview when con	ber of individu	ials recreati	ing, photo-	documentation	of evidence of	of recreati	onal uses, etc. Use	e Data Sheet D- Recreations
100								
rrounding Condit	tions*: (Ma	rk all tha	t promot	e or impede	recreationa	l uses. A	Attach photos o	f evidence or
usual items of interes	st.)						=======================================	
☐ City/county parks	☐ Play	grounds		Conservation	lands	□ Urba	n areas	☐ Campgrounds
☐ Boating accesses ☐ State parks ☐ Nat			☐ Nati	onal forests		☐ Nature trails		☐ Stairs/walkway
☐ No trespass sign ☐ Fence ☐ S			☐ Stee	p slopes		None	of the above	☐ Other:
Comments:								, 1
dications of Huma	an Use*: (a	ttach ph	otos)			×		
			paths/prin	ts 🗆 Dock	/platform	Liv	estock Watering	□ RV / ATV Tracks
☐ Camping Sites				□ NIDD	5 1/ 50			
Comments:		☐ Fire p	- 0	- LU INPU	ES Discharge	☐ Fi	shing Tackle	☐ Other:

						10 CH	ANNEL FEATUR
						Run:	WHICH SHARE
age Two – Data	Shoot D for I	WDID #	1220			Nutra 6	,
age Two – Data eam Morpholog	iy:	W DID #_	1070:5	ITE #3	_	RIFFLE	: 90
Upstream View's	Physical Dime	ensions: I	s there any water	present at th	nis view?	□ Yes □ No	
			If so, is there an	obvious curr	ent?	□ Yes □ No	
Select one of the f				50000			
Channel Feature RIFFLE	Distance from	access (m)	Width (m)	Length	(m)	Median Depth (m)	Max. Depth (m)
RUN							
POOL	-						
Downstroom View	n's Physical Di	imandiand	ar do thomo ones suo	\		D.V D.V.	
Downstream View	v's Physical Di	imensions)
		/	If so, is there a	n obvious ci	urrent?	☐ Yes ☐ No	0
Select one of the f Channel Feature	Distance from		Width (m)	Length	(20)	Median Depth (m)	Mary Donth (m)
RIFFLE	Distance from	access (III)	Width (III)	Lengui	(III)	Wedian Depin (m)	Max. Depth (m)
RUN				 			
POOL /		*					
h = 44- *. /77	200	11					
ustrate": (Inese	values should ad	id up to 100	0%.)				
% Cobble		Gravel	/ 6 % Sand	h at the asses	% Silt	(e) % Mud/Clay	% Bedrock
% Cobble	n*: (Note amour	Gravel nt of vegeta	/ Ø % Sand	h at the asses			% Bedrock
% Cobble	n*: (Note amour	Gravel nt of vegeta	/ Ø % Sand	h at the asses			% Bedrock
% Cobble	n*: (Note amour	Gravel nt of vegeta	/ Ø % Sand ation or algal growt				% Bedrock
% Cobble	n*: (Note amour	Gravel nt of vegeta	/ Ø % Sand ation or algal growt y.) ky □ Chem	nical	sment site	3)	% Bedrock
% Cobble uatic Vegetation ater Characteris Odor:	n*: (Note amour	Gravel nt of vegeta Il that apply ☐ Mus	/ Ø % Sand ation or algal growt y.) ky □ Chem en □ Gray	nical	sment site	Other:	% Bedrock
% Cobble uatic Vegetation ater Characteris Odor: Color:	n*: (Note amour stics*: (Mark al	Il that apply Gree	/ Ø % Sand ation or algal growt y.) ky □ Chem en □ Gray ds □ Fine	nical sediments	Sment site	Other:	% Bedrock
% Cobble uatic Vegetation ater Characteris Odor: Color: Bottom Deposit: Surface Deposit:	stics*: (Mark al Sewage Clear Sludge	Il that apply I Gree Solid	/ Ø % Sand ation or algal growt y.) ky □ Chem en □ Gray ds □ Fine m □ Foam	nical sediments	Sment site None Milky None	Other:	% Bedrock
watic Vegetation ater Characteris Odor: Color: Bottom Deposit:	stics*: (Mark al Sewage Clear Sludge	Il that apply I Gree Solid	/ Ø % Sand ation or algal growt y.) ky □ Chem en □ Gray ds □ Fine m □ Foam	nical sediments	Sment site None Milky None	Other:	% Bedrock
% Cobble uatic Vegetation ater Characteris Odor: Color: Bottom Deposit: Surface Deposit:	stics*: (Mark all Sewage Clear Sludge Oil attach any add	Il that apply I Gree Solid Scur	/ Ø % Sand ation or algal growt y.) ky □ Chem en □ Gray ds □ Fine m □ Foam comments () to the	nical sediments n his form.	✓ None Milky None None	Other: Other: Other: Other:	
watic Vegetation ater Characteris Odor: Color: Bottom Deposit: Surface Deposit: mments: Please his information is no	stics*: (Mark all Sewage Clear Sludge Oil attach any add to be used solel anding of water of	Il that apply I Gree Solid Scur ditional c ly for remoconditions.	y.) ky	sediments his form. al use designates information	None None None None	Other: Other: Other: Other: Other:	ore ence a
watic Vegetation ater Characteris Odor: Color: Bottom Deposit: Surface Deposit: mments: Please his information is no	stics*: (Mark all Sewage Clear Sludge Oil attach any add to be used solel anding of water of	Il that apply I Gree Solid Scur ditional c ly for remoconditions.	y.) ky	sediments his form. al use designates information	None None None None	Other: Other: Other: Other:	ore ence a
watic Vegetation ater Characteris Odor: Color: Bottom Deposit: Surface Deposit: mments: Please his information is no aprehensive understa- ision on the recreation	stics*: (Mark all Sewage Clear Sludge Oil attach any add to be used solel anding of water con use analysis b	Il that apply Il that apply Il Solid Sour Inditional conditions. In the supply of	/ Ø % Sand ation or algal growt y.) sky	sediments his form. al use designates information at need further	None None None None ranalysis	Other: Other: Other: Other: Other:	ore ence a use.
watic Vegetation ater Characteris Odor: Color: Bottom Deposit: Surface Deposit: mments: Please his information is no aprehensive understa- ision on the recreation	stics*: (Mark all Sewage Clear Sludge Oil attach any add to be used solel anding of water con use analysis b	Il that apply Il that apply Il Solid Sour Inditional conditions. In the supply of	/ Ø % Sand ation or algal growt y.) sky	sediments his form. al use designates information at need further	None None None None ranalysis	Other: Other: Other: Other: Other: ather is to provide a mended to directly influe or that effect another to	ore ence a use.
watic Vegetation ater Characteris Odor: Color: Bottom Deposit: Surface Deposit: mments: Please his information is no aprehensive understa- ision on the recreation	Stics*: (Mark all Sewage Clear Sludge Oil attach any add to be used solel anding of water con use analysis but have completed to the complete on the completed to the complete on the complet	Il that apply Il that apply Il Solid Sour Inditional conditions. In the supply of	/ Ø % Sand ation or algal growt y.) ky □ Chem en □ Gray ds □ Fine The Foam comments () to the comments of a recreational consequently, this int to conditions the cetions, checked at the cetions, checked at the cetions of the	sediments his form. al use designates information at need furthe	None None None None tion but rais not inter analysis	Other: Other: Other: Other: Other: ather is to provide a mended to directly influe or that effect another to	ore ence a use. g is complete.

	Distance from	Depth	Rank	Assigned Ranl	
- 10	Stream edge	10 7	The State of the S	Assigned Kani	Sorted depth
sect Al	welfed width	<0 e		1 06 14	
2	5.0 m	0.2		2 Riffle	carrie:
3	•	0.2		161116	30%
4	measurements	0-4		3 POOL	700
5	0.5 m	0.4		4 Disselved	Oxygen
6	apart	0.4			
7	/	0.3			7 7°
8		0,2			- 76
9		0.2		8 23.8	3 %
10		0.1			
				10	
a B 1	wetled width	50.1		11	
2	4-0 m	0.2		12 Channe	Feature:
3	*	0-3		// 1/4	100%
4	measurements	0.4		14 15 Dissolu	
5	0.4 m	0.5		16 Dissolve	ed Oxygen:
67	grant	0.5			0.1
7		0.5			ppm
9		0.4			- City
9		6.3		19 23-	6 00
10		20.1		21	
700				22	
d C	wetted width	<0.1			172.600
	1.3 m	20.1		24 POOL	Featire:
3		0,1		25 RIII	70%
4	measurements	0.1		26 Dissolved	
5	Oct m	<0.1		1. 213301060	(Oxygen
9	apart	<0-1		. 10,3	1
9		101		122.1	- Pon
6 7 8 9		<0,1		n 23.3	000
10		Z0.1		- 20,5	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Alan W. M. Letholl	Date: 4May 23,2007
Organization: FAE, Inc.	Position: Environmental Engineer
February 5, 2007	Page 25

	Distance from	Depth	Rank	Assigned Rank	Cortad dansh
nsect D,	Stream edge		Na.	1 1551 GHOU MAILE	Sorted depth
DELT D	Wethed width			1 Channelt	/
2	8-0 m	0.1		1 Channel For	Ture:
2	7	0.1		3	
4	measurements				2
5	0.8 n	0.2		4 Dissolved O	xygen
		0.2		6 10-70	
7 8 9		0-3		10010	pon
8		0.4		8 9002	10
		0-6		Gror emi	70%
lo		0.3		10	30%
				11	
ed E 1	wethed width	0.1			+,
2	9-5 m	0.5		13 FOOL	100%
3		0.7		14	100%
4	measurements	0-8			1 2
5	0.9 m	0-7	2000	16	Oxygen:
67	quart	0.8		17 10-51	100
	,	0.6		18 /22.4	ppm
9		0.6			00.
9		0.3		20	,
10		0.1		21	700000
_				22	
ed F1	wetted width			23 Channel F	cakeno.
	4.0 m	6.2		24	alli C:
3		0.3		25	
4 1	measurements	0.3		26 Dissolved	Drugge
5	0.4 m	0.2			rigger
7	apart	0.2		. 10.78	
8		0.2		. 127-2	Post
6 7 8 9		0-1		n 26.2	0
10		<0.1		POOL	100%

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: How A! Witchell	Date: May 23, 2007
Organization: EAE, Inc.	Position: Exviconmental Engineer
February 5, 2007	Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from	Depth	Sife #_ Rank	Assigned Rank	Comta J J 1
sect 6,	Stream edge		1. 12.44(40.49)	1 1331gueu Nank	Sorted depth
101		50.1		1 Chamast	
2	3-0 m	0.2		1 Channel Fe	ranure:
3		0,2		3	
4	measurements	0.1			2
5	0.3 n	0.1		4 Dissolved 5 23-6	Daygen
	apart	0.1		6 10-78	
7	•	50.1		7 125.1	700
8		< D.1		8 POO Z	30%
		50.1		9 RUN	30%
10		<0.1		10	1906
				11	1-0%
att 1	wetted width	KOe!			Feature:
2	4.3 m	0.3		13	realuse:
3		0.6		14	-
4	measurements	0.7		15 Dissolve	100
5	00 4 m	0.5		16	d Oxygen:
67	apart	0.5		17 10.90	
9		0.3		18 129.8	ppm
9		0.2		19 23-7	00
10		0.2		20 POOL	100%
10		0.1		21	15026
ارسانه	reletted with			22	5
dI1	Wetted width	50.1	+	23 Channel	Featire:
3		12:1		24	
4	measurements	<0.1		25	2
5	0.8 m	<d-1< td=""><td></td><td>26 Dissolved</td><td>Oxygen</td></d-1<>		26 Dissolved	Oxygen
6	apart	<0.1 <0.1		- .	33
6789	apar I	0.2		. 10.30	pan
8		0.2		. 122.1	16%
9		0.2		n 23-6	, 00
10		KO+1		RIFFLE	30%

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Mou W. Mitchell	Date: 4/ay 23, 2007
Organization: EAF, Inc.	Position: Environmental Engineer
February 5, 2007	Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from	Depth	Site #_ Rank		
	Stream edge	•	TOTAL STATE OF THE	Assigned Rank	Sorted depth
sect I	wethed width	<0a1		1 06 100	
2	2.5 m	<000		1 Channel Fe	ature:
3		0-2		3	
4	measurements			The state of the s	0
5	0.2 n	0.2		4 Dissalved	xygen
5	apart	0,2		3	40
7	age of	0-1		6 10-20	ppn
8		0-1		7 120.0	16
9		<0.1		8 23-2	
10		<0.1		9 1900 L	100%
		1001		10	7.5
a KI	wetted width	<0-1		11	
2	wetted width			12 Channel	Feature:
3		8.2		13	
4	measurements	0-2		14	
5	0-2 m	0.2		15 Dissolve	1 Oxygen:
	ayart	0-2		16	JU
9	7	0.2		17 9.75	ppm
9		0.1		18 //4.9	ppm
9		<0.1		19 23-5	100
10		<0.1		20 7001	40%
		7071		21 RUM	60%
d 1	wetted width			22	
d 2				23 Channel	teatere:
3				24	
4	measurements			25	
5	n			26 Dissolved	Okygen
6	apart				Okygen
7	9		1	1	pon
8					- 7
9		2		n	

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Blanks Mitchell	Date: May 23, 2007
Organization: EAE, Inc.	Position: Environmental Engineer
February 5, 2007	
	Page 25

WBID#_	1220
Site#	4

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization (must be completed for each site)

				(must b	e co	ripieted	for each sit	.e)			
Date & Time:	6/20/07	,	16:45	>		Site Location Description (e.g., road crossing):					
	Personnel (Data Collectors): Lunt & Bartlett				Bridge Crossing @ RD 951						
Current Weather Conditions: Overcast ~75				Facility Name: MONTROSE WWTF							
Weather Condition	ons for Past 1	0 days: I	100), (,			lumber: M				
Name of the second					- 1000						
Drought Conditions:		ught 🔃 Ph	ase I 🗀	; Phase II L	」; Ph	nase III 🗀 :	Phase IV []	; Unknow	wn 🗆		
LOCATION COOP		VERSIAL TIR	ANSVERS	SEMEROAT	OR PE	(03)=(e)(10)\	HIVIMETERS)				
Site GPS Coord							Y: 93		The state of the s	ASSESSED OF	
HORIZONTAL CO	LLECTION ME	THOD (Indic	ate the me	ethod used to	deter	mine the loc	ational data.)				
Static Mode	Global Pe	ositioning S	ystem (G	PS)	4					ion	
Dynamic Mode (Kin	ematic)	3.					Topographic N Aerial Photog				
Precise Positioning	Service					*	Satellite Imag				
Signal Averaging	-						Interpolation (Other			
Real Time Different					N TOWNS NO		S. Samer			* *:	
HORIZONIAI ACC	JUNES III	GPS Date O	uality						Internals		ality
FOM						- ATT TEACH			interpolation Da	ta Qua	ility.
EPE							Source	Map Scal	e: 1:24,000 1:100,	000 C	Other
77.00	±	Feet	or ±	Met	ters		1	±	Feet or ±	93	Meters
PDOP notos:							<u> </u>				
10000	. 51						77.75.00 m				
	pstream Pho	tos			D	ownstream Photos			Other Photos		er Photos
Photo ID#	Pho	Photo Purpose				POR AN ENTIRE CONTRACTOR AND AN		Photo ID#		Photo Purpose	
1220-11,12	Trans.	J-K		1220-9	DY	Trans-B-A					
ses Observed	d*: (Uses a	ctually o									
☐ Swimming		☐ Skin d	living	E] sc	CUBA diving				☐ Water skiing	
☐ Wind surfing	g	☐ Kayak	ing] Во	pating		☐ Wad	ling		☐ Rafting
☐ Hunting	16 12 20 20 20 20 20 20 20 20 20 20 20 20 20	☐ Trapp	ing] Fis	shing	ng None of the above			Other:	
Describe: (Inclu Use Interview v	ude number o	f individua	ls recrea	ting, photo	-docu	ımentation	of evidence	of recreat	ional uses, etc. 1	Use D	ata Sheet D- Recreationa
			- 10				¥				
urrounding C nusual items of	ondition interest.)	s*: (Marl	k all tha	at promo	te or	impede	recreationa	l uses.	Attach photos	ofe	vidence or
☐ City/county	parks	☐ Playg	rounds	□ MD	C cor	nservation	lands	☐ Urb	☐ Urban areas		☐ Campgrounds
☐ Boating acc	cesses	☐ State	parks	☐ Nat	tional	forests		□ Natı	☐ Nature trails		☐ Stairs/walkway
☐ No trespass	sign	▶ Fence	•	₫ Ste	ep slo	opes		□ Non	☐ None of the above		☐ Other:
Comments:											
ndications of	Human L	Jse*: (at	tach pl	hotos)							
A Roads	☐ Rope			ot paths/pri	nts	□ Docl	√platform	⊠ L	Livestock Watering		□ RV / ATV Tracks
☐ Camping Si	ites		☐ Fire	pit/ring		☐ NPD				☐ Other:	
Comments:	FD	951			dim .		2				
Fohmow	£ 2007							**************			550 9000

•				C1	FANNE	L FEATURE !	0
* Page Two – Dat Stream Morpholo	o Chast D for W	DID #	P7 = -	5	RUN:	70 RIFF	LE !
Stream Morpholo	a Sheet B for W	BID #	1640:		RHATCHE	[, 0]	**************************************
Ungtrace View	ogy: 's Physical Dimen		5178 4		POOL:	10/0	
Opstream view	s Physical Dimen					☐ Yes ☐ No	
~			f so, is there an o	bvious curr	ent?	☐ Yes ☐ No	
Channel Feature	Distance from ac			· · · · · · · · · · · · · · · · · · ·			
RIFFLE	Distance from ac	cess (m)	Width (m)	Length	(m)	Median Depth (m)	Max. Depth (m)
RUN							
POOL							
L							
Downstroom Vi	iow's Physical Dir	nondiona	. To these services		. 41 tot	. O CI XI	
Downstream vi	iew's Physical Dir	пепгіопг		97E			
C 1			If so, is there as	obvious c	urrent?	☐ Yes ☐ No) .
Channel Feature	e following chann Distance from a	el featur	es: Width (m)	T	(m)	Malian David (m)	Man Dank ()
RIFFLE	Distance from a	ccess (III)	widii (iii)	Length	(m)	Median Depth (m)	Max. Depth (m)
RUN							
POOL							
Substrate*: (The	se values should add	up to 100	1%.)	L.			<u></u>
So % Cob		ravel	/0 % Sand	10	% Silt	// % Mud/Clay	% Bedroc
	3						
Aquatic Vegetat	ion*: (Note amoun	t of vegeta	tion or algal growt	h at the asse	ssment site)	
						120	
	limi	ted o	Cavatie NES	station	J		
·			· · · · · · · · · · · · · · · · · · ·			- Court Wile Book Court Wilde	
Water Characte	eristics*: (Mark all	that annly	. `				
Odor:	William Co.	VALUE OF THE STREET			\ - \		
500 - 500 - 500 E	☐ Sewage	☐ Mus		nical	None None	☐ Other:	
Color:	☑ Clear	√ Gre	en 🗆 Gray	*	☐ Milky	☐ Other:	
Bottom Deposit	t: 🗆 Sludge	☐ Soli	ds 🗏 Fine	sediments	□ None	☐ Other:	
Surface Deposi	t: 🗆 Oil	□ Scu	m 🗆 Foan	1	☑ None	☐ Other:	
Comments: Plea	ase attach any ado	ditional	comments () to t	his form.			
			22				
*This information is	s not to be used solel	y for remo	oval of a recreation	al use design	nation but r	ather is to provide a n	nore
decision on the recr	eation use analysis b	ut may po	int to conditions th	s intormatic at need furth	n is not int er analysis	ended to directly influ or that effect another	ience a
Please verify that	t you have comple	eted all s	ections, checked	all applica	ble boxes	and that everythin	ng is complete.
	10 01						
Surveyor's Signat	- M 7 11			D 4	r a	y: 6/20/07	
Surveyor's Signat	une. And DA	1					
Organization:	BWR GORP.			Positio	m· F.V	N. SCI.	
015mileation	OWN TOP.			1 031110	11. EN	W.) CI.	

Distance from	D4	SITE 4		1
Stream edge	Depth	Rank	Assigned Rank	Sorted depth
WETTED WIDTH	LO11		1 CHANNEL F	EATURE:
2 18	0.1		2 Pun	
3	Pul		3	
4 MEASUREMENTS	0.1		4 DISSOLVED	OXYGEN:
5 .0.15 M	0.1		5 7.18	
G ABART	0.1		6	ppM
7	b. 1		7	1111
8	0.1		8	
d	9 1		9	
10	l ð.i		10	
			11	
1 METTED WIDTH	0.1		12 CHANNEL	FEATURE .
2 1,3	0.1		13 RUN	
3	20.1		14	
4 MEASUREMENTS	401		15 DISSOLVED	OXYGEN:
5 0113 M	(0,1		16 7,20	
4 APART	60.1		17	ppM
7	60.1		18	111
9	40.1	100	19	
9	40,1		20	
10	2011		21	
			22 CHANNE	- PEATURE:
WETTED WIDTH			23 (UN	
2 1.3	60.		24	
3	0.		25 DISSOLU	ED OXYGEN:
4 MEASUREMENTS	, Ö		26 7,10	
5 D113 M	60.1			ppm
6 APART	LO.1			VI
7	40.1			
8	< D. (n	
9	1,62			
10	40.1			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my	knowledge, t	hat all information reported on this UAA
datasheet is true and accurate.	3 /	
Signed:	Date:	4/20/07

Position: ENV. Scl.

February 5, 2007

Organization: BWR CORP.

			Site 4			
	Distance from	Depth	Rank	Ass	igned Rank	Sorted depth
	Stream edge					The second secon
(WETTED WIDTH	CPD. 1		1	CHANNEL	FEATURE:
23	4,2	401		2	RUN	
		10.1		3		
4	MEASUREMENTS	0.1		4	DISSOLVED	OXYGEN:
5	0,42 M	0,1		5	7,60	
6	APART	0.1		6		Bbm
7		0.1		7		67
8		0.1		8		
9		0.1		9		
10		0.1		10		
	1.0			11	CHANNEL	PEATURE:
1	MELLED MIDLY	0,1		12	RUN	
2	4.5	0,2		13		
3		0,2		14		exygen:
4	MEASURE MENT	0.2		15	6.75	
6	0.45 M	10.2		16		pom
7	APART	0.3		17		. 1
		0.3		18		
8		0,20		20		
18		0. 00		21		
		- D. I	-	22		C=1-05:
1	WETTED WIDTH	20.1		23		FEATURE:
7	4.7	6.2		24	- AUTO	
3		0,4		25		
4	MEASUREMENT			26		ED OXYGEN:
5	D14 1	0.3			6,86	
6	APART	0.12				ppm
7		0.1				
8		201		n		
1		201				
	2.10					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my know	vledge, that all information reported on this UAA
datasheet is true and accurate.	
Signed:	Date: 6/20/07
Organization: 6/20/07	Position: ENV. SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
MELLEDMIDUA	0,1		1 CHANNEL	FEANNEE!
4,4	10.3		2 RUN	11000
	9, 4		3	
MEGURENENTS	0.5			oxygen:
0.44	0.5		5 6,52	
APART	0,4		6	ppm
	0, 2		7	111
	D. I		8	
	LA.1		9	
0	LO,		10	
			11	
MAJON MIDTH	LOIL		12 CHANNEL	FEATURE:
3.8	01		13 Pool	
	D, Z		14	
1 MEASUREMENTS	510		15 DISSOLUE	ED OXYGEN.
5 Di38 M	0.3		16 7,0	
APART	0.3		17	ppm
	013		18	
3	D, Z		19	
7	DIL		20	
0	LO. 1		21	
			22	
WETTED WIDTH	201		23 Dal C4420	NEL FEATURE:
310	LO.1		24 RV	N
3	0.1		25	
#	0.1		26 D1550L	VED EXYGEN:
5 MEASUREMENTS			. 6.94	/
19.30 M	0.2			ppm
7 ABART	0.1			(1)
8	50		n	
9	D,Z			
10	0 1			

C4- 4

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

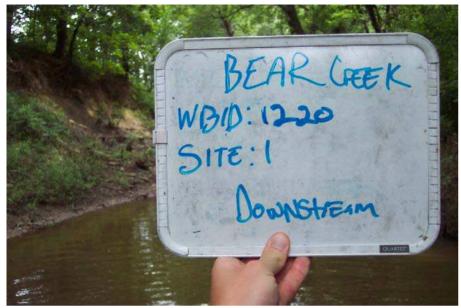
I, the undersigned, hereby affirm to the best of my know	vledge, that all information reported on this UAA
datasheet is true and accurate.	
	Date: 6 20 07
Organization: RUR COPP	Position, T. III SCI

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
WETTED WIDTH	40.1		1 CHANNEL	Se Anjek!
5.2	10.1		1 CHANNEL :	PR/101-
	0.1		3	
MEASUREMENTS	0.1			oxygen:
05Z M	0,1		5 32	6,53
ARART	605		6	
	1/2		7	8pm
	0.3		8	
	PIL		9	
17	0.1		10	
2	6.4		11	
HETTED WIDTH	601			I FEATURE:
7.7	401		13	
	601		14	10010
MERCUREMENTS	40.1		15 PISSOLU	ED OXYGEN:
. D. 77 M	600		16 6.80	en en laen
ARART	1-19.1		17	DOM
	2011		18	The state of the s
	40,1		19	3805
	40.1		20	
	40.1		21	
			22	
			23	
			24	
	7/		25	
			26	579 W
			n	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the bes	t of my knowledge, that all information reported on this UAA
datasheet is true and accurate.	
datasheet is true and accurate. Signed:	Date: (/ 20 / 07
Organization: BUR COPP	Position: ENV. Scl.



Downstream (Site 1) of Bear Creek



Downstream (Site 1) of Bear Creek



Upstream (Site 1) of Bear Creek



Upstream (Site 1) of Bear Creek



Upstream (Site 2) of Bear Creek



Upstream (Site 2) of Bear Creek



Downstream (Site 2) of Bear Creek



Downstream (Site 2) of Bear Creek



Downstream (Site #3) of Bear Creek.



Upstream (Site #3) of Bear Creek.



Downstream (Site #3) of Bear Creek.



Upstream (Site #3) of Bear Creek.





Downstream (Site 4) of Bear Creek



Upstream (Site 4) of Bear Creek

Downstream (Site 4) of Bear Creek



Upstream (Site 4) of Bear Creek